Missouri Assessment Program Spring 2001

Science Released Items Scoring Guide Grade 7

FB-SD1-16

Session: 1 Item: 7 Page: 6

III.A6.p36 (Std 1) **Standard:**

1.10 Goals:

Key Elements:

oxidation or rusting AND iron and oxygen

Oxygen came in contact with the iron only where the paint wore off.

Score Points:

two key elements one key element 2 points 1 point 0 points

FF-S2-7

Session: 2 4 7 Item: Page:

VIII.B3 and 4.p90 (Std 4) 2.1, 3.5 **Standard:**

Goals:

Key Elements:

Site 3

- Site 3 is just downstream from a feedlot which may be dumping bacteria (from cattle manure) into the river.
- Site 3 has the lowest dissolved oxygen level.
- Site 3 has the highest bacterial level.

Score Points:

2 points 1 point 0 points two key elements one key element

FF-S2-8

Session: Item: Page:

2 5 7 VIII.B3 and 4.p90 (Std 4) **Standard:**

Goals: 1.6

Key Element:

They decrease.

Score Points:

1 point 0 points key element other

FF-S2-9

Session: 2 6 7 Item: Page:

VIII.B3 and 4.p90 (Std 4) Standard:

Goals: 2.1, 3.5

Key Elements:

Trout are not present because of low dissolved oxygen levels.

High bacteria levels are present at this location.

AŇD

They are associated with low dissolved oxygen levels.

Score Points:

two key elements one key element 2 points 1 point 0 points

FF-S2-10

Session: 2 7 Item: 8 Page:

VIII.B3 and 4.p90 (Std 4) Standard:

Goals: 2.1, 3.5

Key Elements:

- The bacterial levels are higher upstream and lower downstream from the wastewater treatment plant.
- The wastewater treatment plant doesn't appear to add bacteria to the stream.

The chart shows that the bacterial count is safe for swimming.

Score Points:

2 points two key elements 1 point 0 points one key element

FF-S2-11

 Session:
 2

 Item:
 8

 Page:
 8

Standard: VIII.B1.p90 (Std 4)

Goals: 2.1, 3.1, 4.1

Key Elements:

Site 1

OR

Site 2

OR

Site 7

OR

Site 8

Explanation must include the accurate use of data from all three charts to support at least 2 out of 3 activities (swimming, boating, and fishing).

<u>Note:</u> Actual numbers need not be used, but the implication that all three charts were used to support the choice of site must be evident.

Score Points:

2 points two key elements one key element

0 points other

FF-S3-30

Session: 3 Item: 26 Page: 13

Standard: V.B3.p57 (Std 6) 1.6, 1.10, 2.1 Goals:

Key Elements:

Earth has a tilted axis.

The tilt does not change/remains constant while the Earth orbits/revolves around the sun.

MO/We get more/less direct light.

The angle at which light strikes the Earth changes.

Score Points:

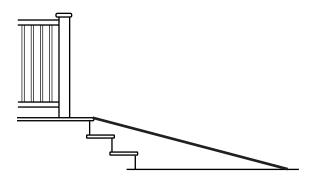
3 points three key elements 2 points 1 point 0 points two key elements one key element

 Session:
 3

 Item:
 29

 Page:
 16

Standard: IV.C3.p49 (Std 2) Goals: 1.6, 1.10, 3.1



Key Elements:

longer ramp, not as steep as one shown in the original picture

It isn't as steep as the other ramp.

No

AND

- Ramps (machines) reduce effort not work.
- The effort is less, but the distance is greater, so work is the same.

Score Points:

3 points three key elements 2 points two key elements 1 point one key element

0 points other